



MSW100 SINEWAVE INVERTER

SERIES MSW100

The MSW100 supplies a 115VAC / 400Hz output voltage from a 24VDC power source, input and output are galvanically isolated.

The shape of the output voltage is pure sinewave - as from the grid.

The MSW100 inverter features maximum average power protection as well as maximum output peak current protection.

This protects the semiconductors even when an output short-circuit occurs.

APPLICATIONS

- Industrial Controls
- Telecom Power Plants
- Marine & other rugged environments
- Electric Utilities and Substations
- Base Station Power

FEATURES

- Sine wave output voltage
- High input-output isolation 3000Vrms
- Output protected against overloads and shortcircuits
- Input protected against overcurrents by internal fuse.
- Over-temperature shutdown



Pure
Sinewave



High
frequency
technology



Light weight,
compact size



Full electronic
protection



Extended
temperature
range



Convection
Cooling
(no Fan)



Output fail
alarm
(Form B)

SPECIFICATIONS

Input	
Input voltage	24Vdc
Input voltage range	19.2 ... 30V
No load input current	< 0.4A
Efficiency	> 85%
Output	
Output voltage	115Vac sinusoidal
Frequency	400Hz \pm 2Hz
Output wave distortion THD	< 3% (8 samples h= 0..21th)
Maximum continuous current	0.9A
Maximum peak current	4.5A
Line regulation	< 0.2%
Load regulation	< 2%
Output voltage HF ripple	< 1.8 Vrms
Output power	100VA
Environmental	
Storage temperature	-40 ... 80°C
Operating temperature full load	-40 ... 75°C
Derating Power / Temperature	-2.5% / °C from 50 to 75°C
Cooling	Natural convection
Relative humidity	5...95% no condensation
Vibration	EN61373 Category 1 class B body mounted
Shock	EN61373 Category 1 class B body mounted
MTBF (MIL-HDBK-217-E; Gb, 25°C)	160.000h
Environmental regulations	RoHS according to directive 2002/95/EC

EMC	
Immunity according to	EN61000-6-2
Emissions according to	EN61000-6-4
Safety	
Safety according to	EN60950
Dielectric strength: Input / output	3000 Vrms / 50Hz / 1min
Dielectric strength: Output / ground	1500 Vrms / 50Hz / 1min
Dielectric strength: Input / ground	500 Vrms / 50Hz / 1min
Mechanical	
Weight	750 g
Dimensions	Eurocassette 3HE x 12TE x 160 mm
Connections	Input: Phoenix Contact MSTB 2,5/ 3-GF-5,08 Output & Alarm: Phoenix Contact IC 2,5/ 5-GF-5,08
Protections	
Input against over-currents	By internal fuse
Output against overloads	< 4.5A linear > 4.5A timed constant current
Output against short-circuit	1s
Maximum number of consecutive short-circuits	3 times
Control	
Output failure alarm	By optocoupler, open when alarm (< 0.2A at 36Vdc)

